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The action of alkyl halides on esters of antimonous and thioantimonous acids

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Abstract

1. Alkyl halides react with esters of antimonous acid with cleavage of ethers and formation of dialkoxyhalostibines. In this ways the preparation was effected of diethoxy-, dibutoxy-, diisoamyloxybromostibines and of diethoxy-, dibutoxy- and diisoamyloxyiodostibines. 2. Reaction of alkylchloromethyl ethers with antimonous esters leads to separation of the corresponding formals and to formation of alkoxychlorostibines. (RO)3Sb + CH2Cl-OR??? → (RO)2SbCl + ROCH2OR??? (RO)2SbCl + CH2Cl-OR??? → (RO)SbCl2 + ROCH2OR??? 3. Alkyl halides readily react with esters of trithioantimonous acid to for dialkyl sulfide and to haloanhydrides of dithioantimonites. The bromoanhydride of diethyl dithioantimonite and the corresponding iodoanhydride were prepared. © 1954 Consultants Bureau, Inc.

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